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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,083	03/19/2004	Per-Ake Larson		7709
22971 7590 09/14/2009 MICROSOFT CORPORATION ONE MICROSOFT WAY REDMOND, WA 98052-6399				
			EXAMINER ORTIZ, BELIX M	
			ART UNIT 2164	PAPER NUMBER
			NOTIFICATION DATE 09/14/2009	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

roks@microsoft.com  
ntovar@microsoft.com

### Office Action Summary

**Application No.**

10/805,083

**Applicant(s)**

LARSON ET AL.

**Examiner**

BELIX M. ORTIZ

**Art Unit**

2164

**Period for Reply** -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 04 June 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-26, 28-37 and 39-41 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 13, 20, 21 and 32 is/are rejected.
- 7) ☒ Claim(s) 2-6, 8-12, 14-19, 22-26, 28-31, 33-37 and 39-41 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsman's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

#### *Remarks*

1. In response to communications files on June 4, 2009, Claims 1-6, 8-13, 21, 20-21, and 32, 39, and 41 are amended and claims 7, 27, and 38 are cancelled per applicant request. Therefore, claims 1-6, 8-26,28-37 and 39-41 are presently pending in the application.

#### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 13, 20-21, and 32 are rejected under 35 U.S.C. 103(a) (Eff. Filing date of application: 3/19/2004) as being unpatentable over Carey et al. (US pub. 2001/0049685) (Eff. Filing date of application: 6/27/2001) (hereinafter Carey) in view of Levy et al. (US pat. 6,088,524) (Eff. Filing date of application: 12/27/1995) (hereinafter Levy) and further in view of Gluss et al. (US pat. 5,517,658) (Eff. Filing date of application: 5/4/1994) (hereinafter Gluss).

As to claims 1, 13, 20-21, and 32, Carey teaches

At least one memory (see figs. 1 and 2 and p. 56); and

At least one processing unit, comprising:

Wherein the currency constraint includes a consistency constraint and the constraint parser parses the consistency constraint (see p. 65);

a query plan generator that constructs a query plan for executing the query, wherein the plan includes one or more subplan selection operators that check a currency of a local replica against the query's currency constraint (see abstract and paragraphs 96 and 97); and

selects the subplan using the local replica only when the constraint is met; and wherein the query processing engine executes the query plan, including the subplan selection operators, thereby producing a result that satisfies the query's currency constraints (see paragraphs 177 and 190).

Carey does not expressly teach a constraint parser that interprets and converts the user specified currency constraint into a form usable by the query optimizer.

Levy teaches method and apparatus for optimizing database queries involving aggregation predicates (see abstract), in which he teaches a constraint parser that interprets and converts the user specified currency constraint into a form usable by the query optimizer (see col. 1, lines 5-10).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Carey by the teaching of Levy, because a constraint parser that interprets and converts the user specified currency constraint into a form usable by the query optimizer, would enable the system because, "Since many data bases are very large, an efficient method for responding to queries is essential. The phrase "query optimization" refers to the techniques used to organize the necessary computations, to reduce the time and

memory resources required to respond to a query. The strategy of optimization is to reduce the number of predicates that must be computed in solving the query and to apply those predicates as early as possible. Thus the example query above, find the highest paid employee, can be optimized by applying the maximum salary predicate when constructing the view relation", (see col. 3, lines 17-27.

Carey or Levy does not expressly teach using the user specified for the query optimizer.

Gluss teaches method for testing design timing parameters using a timing shell generator (see abstract), in which he teaches converts the user specified currency constraint (see claim 1).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Carey by the teaching of Gluss, converts the user specified currency constraint, would enable the system because, "A method for providing user-specified timing constraints to a simulator of system operation, between functional modules of a design for a system including a plurality of modules, each module having one or more terminals and its own individual operational parameters, the user-specified timing constraints being converted from a timing vernacular language to timing constraints in a behavioral simulation language that is compatible with the simulator", (see claim 1).

#### ***Allowable Subject Matter***

Claims 2-6,8-12, 14-19, 22-26, 28-31, 33-37, and 39-41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BELIX M. ORTIZ whose telephone number is (571)272-4081. The examiner can normally be reached on moday-friday 9am-5pm.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/B. M. O./  
Examiner of Art Unit 2164

September 3, 2009

/Charles Rones/  
Supervisory Patent Examiner, Art Unit 2164